WMP-175

Medical Grade Panel PC

USER'S MANUAL

P/N: 205G000WMP1750, V1.1

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Version Change History

Date	Version	Description	Remark
2011/09/06	1.0	First release	Cosa Huang
2012/07/10	1.1	1. Add UL 3rd logo 2. Modify Water/dust Resistance 3. Modify Input Voltage for Unit Volume 4. Add RAM Capacity	Cosa Huang

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FCC Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 18 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with this user manual, it may cause harmful interference to radio communications.
Note that even when this equipment is installed and used in accordance with this user manual, there is still no guarantee that interference will not occur. If this equipment is believed to be causing harmful interference to radio or television reception, this can be determined by turning the equipment on and off. If interference is occurring, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment to a power outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Warning:
Any changes or modifications made to the equipment which are not expressly approved by the relevant standards authority could void your authority to operate the equipment.

To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

Do not modify this equipment without authorization of the manufacturer.

Caution:
Danger of explosion if battery is incorrectly replaced, replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according the *manufacturer's instructions.*

Safety Instructions

Intended use
The WMP-175 is intended to serve as a medical monitor which is designed for general purpose for hospital environment and for diagnosis. It could be used for Surgical, Radiology, PACS (Picture Archiving Communication Systems), LIS (Lab Information Systems) and Electronic Medical Record purpose. It shall not be used for life-supporting system.
WARNING: Critical diagnostic decision must not be based solely on images displayed by this device

Greeting & Setup
Thank you for purchasing the WMP-175 unit. We wish that this unit will be durable and reliable in providing your medical application needs. Please follow the instructions below to ensure the unit continues to have high performance.

Unpacking
After opening the carton, there will be a Medical Panel PC unit with an accessory box. Examine the contents to see if there are damages to the unit and if all accessories are present.

Setting up
Please read this manual carefully and remember to keep this manual for future reference.

Safety Instructions & Cleaning
The unit has undergone various tests in order to comply with safety standards. Inappropriate use of the open frame unit may be dangerous. Please remember to follow the instructions below to insure your safety during the installation and operating process.

Transporting & Placement of unit

1. When moving the unit on a cart; be very cautious. Quick stops, excessive forces and uneven surfaces may cause the cart to overturn thus risking the unit to fall to the ground.

2. If the Medical Panel PC unit does fall to the ground, immediately turn the power off and disconnect cords. Then contact a service technician for repairs. Continual use of the unit may result cause a fire or electric shock. Also, do not repair the unit on your own.
3. Having two or more people transporting the display unit is recommended. In addition, when installing the unit by suspending it also requires two or more people.
4. Before suspending the unit, make sure the material used for suspension is sturdy and stable. If not properly suspended, the display unit may fall and cause serious injury to people standing nearby as well as to the unit itself.
5. If you wish to mount the display unit, remember to use only the mounting hardware recommended by the manufacturer.

Electrical and Power Source Related

1. This Medical Panel PC unit must operate on a power source as shown on the specification label. If you are not sure what type of power supply used in the area, consult your dealer or local power supplier.
2. The power cords must not be damaged. Applied pressure, added heat, and tugging may damage the power cord.
3. The power cord must be routed properly when setup takes place. We advise that this aspect measure is to prevent people from stepping on the cords or while the unit is suspended to prevent flying objects from getting tangled with the unit.
4. Do not overload the AC outlets or extension cords. Electrical shocks or fires may occur from overloading.
5. Do not touch the power source during a thunderstorm.
6. If your hands are wet, do not touch the plug.
7. Use your thumb and index finger, grip firmly on the power cord to disconnect from the electrical socket. By pulling the power cord, may result in damaging it.

8. If the unit is not going to be in use for an extended period of time, remember to disconnect the unit.
9. The Medical Panel PC unit uses voltage between 90-264VAC. Connect the unit to a power source with the same numerical value as shown. Please use only the power cord provided by the dealer to ensure safety and EMC compliance.

Various Factors of Environment

1. Do not insert objects into the openings.
2. Do not have liquids seep into the internal areas of the Medical Panel PC unit.
3. Having liquids seep in or inserting objects into the unit may result in electric shocks from taking and/or short circuiting the internal parts.
4. Do not place the Medical Panel PC unit in the presence of high moisture areas.
5. Do not install the Medical Panel PC unit in a wet environment.
6. Do not place near unit near heat generating sources.
7. Do not place the unit in a location where it will come in contact with fumes or steam.
8. Remember to keep the Medical Panel PC unit away from the presence of dust.
9. If water has flow in or seep in, immediately disconnect the open frame unit. Then contact a service technician for repairs.

Ventilation Spacing

1. Do not cover or block the openings on the top and back sides of the display unit. Inadequate ventilation may cause overheating thus reducing the lifespan of the unit.
2. Unless proper ventilation is present, do not place unit in an enclosed area; such as a built-in shelf. Keep a minimum distance of 10 cm between the display unit and wall.

Cleaning the unit

1. Remember to turn off the power source and to unplug the cord from the outlet before cleaning the unit.
2. Carefully dismount the unit or bring the unit down from suspension to clean.
3. Please use a dry soft cloth to clean the unit.
4. Take a dry cloth and wipe the unit dry. Remember to avoid having liquids seep into the internal components and areas of the Medical Panel PC unit.

Servicing, Repairing, Maintenance & Safety Checks

1. If the unit is not functioning properly, observe the performance level of the display closely to determine what type of servicing is needed.
2. Do not attempt to repair the Medical Panel PC unit on your own. Disassembling the cover exposes users' to high voltages and other dangerous conditions. Notify and request a qualified service technician for servicing the unit.
3. To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
4. If any of the following situations occur turn the power source off and unplug the unit. Then contact a qualified service technician

   (a) A liquid was spilled on the unit or objects have fallen into the unit.

   (b) The unit is soaked with liquids.

   (c) The unit is dropped or damaged.

   (d) If smoke or strange odor is flowing out of the operating unit.

   (e) If the power cord or plug is damaged.

   (f) When the functions of the unit are dysfunctional.
5. When replacement parts are needed for the Medical Panel PC unit, make sure service technicians use replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original

parts. If unauthorized parts are used it may result in starting a fire, electrical shock and/or other dangers.

	ISO 7000-0434 : Caution, consult ACCOMPANYING DOCUMENTS.
	ISO 7000-1641 : Follow operating instructions or Consult instructions for use.
	IEC 60417 -5009 : STAND-BY.
	IEC 60417-5031 : Direct current.
	EU-wide legislation, as implemented in each Member State, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your display products, please follow the guidance of your local authority, or ask the shop where you purchased the product, or if applicable, follow any agreements made between yourself. The mark on electrical and electronic products only applies to the current European Union Member States.

When networking with electrical devices, the operator is responsible for ensuring that the resulting system meets the requirements set forth by the following standards:

– EN 60601-1 (IEC 60601-1)
Medical electrical equipment
Part 1: General requirements for safety

– EN 60601-1-1 (IEC 60601-1-1)
Medical electrical equipment
Part 1-1: General requirements for safety
Collateral standard: Safety requirements for
Medical electrical systems

– EN 60601-1-2 (IEC 60601-1-2)
Medical electrical equipment
Part 1-2: General requirements for safety
Collateral standard: Electromagnetic compatibility;
Requirements and tests

3SZJ
E355176
With Respect To Electric Shock,
Fire And Mechanical Hazard Only In
Accordance With ANSI/AAMI ES60601-1.
CAN/CSA C22.2 No. 60601-1

Accessory equipment connected to the analog and digital interfaces must be in compliance with the respective nationally harmonized IEC standards (i.e. IEC 60950 for data processing equipment, IEC 60065 for video equipment, IEC 61010-1 for laboratory equipment, and IEC 60601-1 for medical equipment.) Furthermore all configurations shall comply with the system standard IEC 60601-1-1. Everybody who connects additional equipment to the signal input part or signal output part configures a medical system, and is therefore, responsible that the system complies with the requirements of the system standard IEC 60601-1-1. The unit is for exclusive interconnection with IEC 60601-1 certified equipment in the patient environment and IEC 60XXX certified equipment outside of the patient environment. If in doubt, consult the technical services department or your local representative.

Caution:

DO NOT LEAVE THIS EQUIPMENT IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20° C (-4° F) OR ABOVE 60° C (140° F). THIS MAY DAMAGE THE EQUIPMENT.

This equipment shall not be used in life support systems.

The user is not to touch SIP/SOPs and the patient at the same time.

Caution – Use suitable mounting apparatus to avoid risk of injury.

The sound pressure level at the operator's position according to IEC 704-1:1982 is no more than 70dB (A).

A) Grounding reliability can only be achieved when the equipment is connected to an equivalent receptacle marked "Hospital Only" or "Hospital Grade".
B) Use a power cord that matches the voltage of the power outlet, which has been approved and complies with the safety standard of your particular country.
C) Caution: This adapter Sinpro MPU101-105 is a forming part of the medical device

Contact information:

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Introduction

Product Description

The WMP-175 Medical Panel PC are based on Intel Atom D525 processor which deliver a performance improvement of more than 100 percent compared to systems running traditional single-core processors. With two cores, or computing engines, WMP-175 can simultaneously execute two computing tasks. It accommodates one 2.5" SATA hard disk drive and up to 4GB DDR3 SODIMM.

The high brightness LCD, Fanless solution, integrated multimedia functions and extensive expansion options make them the perfect platform upon which to build comprehensive lifestyle computing applications.

The WMP-175 includes all the features of a powerful computer into a slim and attractive chassis. The WMP-175 has a 17" high brightness TFT display with 1280 x 1024 resolutions.

The WMP-175 are compact, Giga LAN and selectable WLAN network compatible PC with full safety and medical approval and features to control a dedicated system with a wide variety of applications. Combining the WMP-175 into your system can achieve both cost-saving and efficient improvements.

Common applications include Surgical, Radiology, PACS (Picture Archiving Communication Systems), LIS (Lab Information Systems) and Electronic Medical Record. The WMP-175 are definitely your perfect choices.

Package list

Before you begin installing your Medical Station, please make sure that the following items have been shipped:

- The WMP-175 Medical Panel PC unit
- One CD containing user manual, QIG, chipset drivers
- Power Adapter x 1 (Mf:Sinpro, type/model: MPU101-105)
- Power cord – Hospital grade used(US type), or other type in UK, EU…etc.
- Touch pen x 1 (By configuration)
- Screw x 8 (VESA 75/100 use)

Features

- Intel Atom D525 Processor
- Highest performance and low power system solution
- Plastic construction with medical outlook color
- Fanless Design
- Tempered glass as option
- 802.11 b/g/n or a/b/g/n WLAN module as option
- Bluetooth v2.1 + EDR module as option
- Integrated webcam solution (By configuration, optional)
- VESA 75/100 compliance Desktop Stand (optional)
- VESA 75/100 compliance Wall Mount (optional)

Specifications

Hardware Specifications

Display	17” 380 nits SXGA color TFT LCD
CPU Support	Intel® Atom dual core D525 Processor
Disk Drive Space	2.5” Hard Disk Drive (SATA-150)
Expansion	One PCI-Ex4 slot or One PCI slot expansion slot (By configuration, optional) One Mini PCI-E
Button	Brightness: “+” / ”-“; Sound: “+” / ”-“; Power SW
I/O	**Standard version** 1 RS-232 ports + 1 RS-232/422/485 port 3 USB 2.0 ports 1 DC-in w/ lock function 1 Gigabit LAN RJ-45 Connector *Sound:* 1 x line-out 1 x Mic-in 2 x 2W Speakers on back side 1 x optional PCI slot

RAM module installation

Please follow this form to install RAM

Capacity	Dimm 0	Dimm 1
1G	1G	
2G	1G	1G
2G	2G	
3G	2G	1G
4G	4G	
4G	2G	2G

LCD Specifications

Model Name	G170EG01 (V0)
Display Type	17” color TFT LCD
Max. Resolution	1280 x 1024
Contrast Ratio	1000 : 1 (Typ)

Pixel Pitch (mm)	0.264 (per one triad) x 0.264
Luminance (cd/m2)	380 (TYP)
Viewing Angle	170°(H)
	160°(V)
Operating Temperature	0°C~ 40°C (32°F~104°F)
Brightness Control	Yes

Power Adapter Specifications

Power	Close-frame
MFR	Sinpro
Type	MPU101-105
Input Voltage	AC 100 ~ 240V, 1.25 – 0.5A @ 47 ~ 63 Hz
Output Voltage	DC 12V @ 8.33A
MTBF	100,000 hrs operation at 25°C

Mechanical Specifications

Architecture	Close-frame
Front Bezel	Plastic bezel with resistive touch screen
Color	Medical-white
Mounting / Holder	VESA 75/100mm
Construction	3mm ABS + PC TYPE Plastic housing
Dimension (WxHxD)	420mmx 360mm x 83 mm
Net Weight	6.5kg (w/o power adapter)
Packing Filler	PE

Environmental Specifications

Temperature	Operating: 0°C to 40°C (32°F ~104°F) Storage, Transportation: -20°C to 60°C (-4°F ~140°F)
Storage Humidity	Operating: 10% to 90%, non-condensing Storage, Transportation: 10% to 90%@ 40°C, non-condensing
Vibration	Operating: 15g/0.53 oz, 11 ms, half sine wave Non-operating: 50g/1.76 oz, 11 ms, half sine wave

Shock	Operating: 5 ~ 17 Hz , Amplitude：0.117 ~ 500Hz , Acceleration：1.0G Non-operating:10~55Hz/0.15g, 55~500Hz/2.0g
Altitudes	Operational: up to 3000 m (9842 feet) Shipping: up to 12192 m (40000 feet)
Noise	WMP-175: Fanless
Pressure	700 – 1060 hPa (Operation) 186 – 1060 hPa (Storage) 186 – 1060 hPa (Transportation)
Input Power Rating	For Adaptor: AC 100~240V, 1.25 – 0.5A, @ 47 ~ 63 Hz. For Unit: DC 12V, 8.0A
Power Consumption	WMP-175: 96W Max (Typical: 46.50W)

Touch Screen (Optional)

Type	5-wire, Analog Resistive
Interface	USB interface
Resolution	2048 x 2048
Light Transmission	80% ± 3%
Life Time	35 million activations

Guidance and manufacturer's declaration – electromagnetic emissions		
The model WMP-175 is intended for use in the electromagnetic environment specified below. The customer or the user of the model WMP-175 should assure that it is used in such an environment.		
Emissions test	**Compliance**	**Electromagnetic environment – guidance**
RF emissions CISPR 11		The model WMP-175 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11		The model WMP-175 is suitable for use in all establishments, including

Harmonic emissions IEC 61000-3-2		domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Voltage fluctuations/ flicker emissions IEC 61000-3-3		

Recommended separation distances between portable and mobile RF communications equipment and the model WMP-175

The model WMP-175 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the model WMP-175 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the model WMP-175 as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	**Separation distance according to frequency of transmitter** m		
	150 kHz to 80 MHz $d = 1,2\sqrt{P}$	**80 MHz to 800 MHz** $d = 1,2\sqrt{P}$	**800 MHz to 2,5 GHz** $d = 2,3\sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distanced in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Guidance and manufacturer's declaration – electromagnetic immunity			
The model WMP-175 is intended for use in the electromagnetic environment specified below. The customer or the user of the model WMP-175 should assure that it is used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment – guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	±1 kV line(s) to line(s) ±2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.

interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % *U*T (>95 % dip in *U*T) for 0,5 cycle 40 % *U*T (60 % dip in *U*T) for 5 cycles 70 % *U*T (30 % dip in *U*T) for 25 cycles <5 % *U*T (>95 % dip in *U*T) for 5 sec	<5 % *U*T (>95 % dip in *U*T) for 0,5 cycle 40 % *U*T (60 % dip in *U*T) for 5 cycles 70 % *U*T (30 % dip in *U*T) for 25 cycles <5 % *U*T (>95 % dip in *U*T) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the model WMP-175 requires continued operation during power mains interruptions, it is recommended that the model WMP-175 be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE *U*T is the a.c. mains voltage prior to application of the test level.			

Guidance and manufacturer's declaration – electromagnetic immunity			
The model WMP-175 is intended for use in the electromagnetic environment specified below. The customer or the user of the model WMP-175 should assure that it is used in such an environment.			
Immunity	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment – guidance**
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2,5 GHz	Vrms V/m	Portable and mobile RF communications equipment should be used no closer to any part of the model WMP-175, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. **Recommended separation distance** $d = 1,2\sqrt{P}$ $d = 1,2\sqrt{P}$ 80 MHz to 800 MHz $d = 2,3\sqrt{P}$ 800 MHz to 2,5 GHz where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and *d* is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, [a] should be less than the compliance level in each frequency range. [b] Interference may occur in the vicinity of equipment marked with the following symbol:
NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
[a] Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the model WMP-175 is used exceeds the applicable RF compliance level above, the model WMP-175 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the model WMP-175. [b] Over the frequency range 150 kHz to 80 MHz, field strengths should be less than V/m.			

Cleaning/Disinfecting

Steps:

1. Wipe the WMP-175 with a dry clean cloth.

2. Prepare agent per manufacturer's instructions or hospital protocol.

Cautions:

- *Do not immerse or rinse the WMP-175 and its peripherals. If you accidentally spill liquid on the device, disconnect the unit from the power source. Contact your Biomed regarding the continued safety of the unit before placing it back in operation.*
- *Do not spray cleaning agent on the chassis.*
- *Do not use disinfectants that contain phenol.*
- *Do not autoclave or clean the WMP-175 or its peripherals with strong aromatic, chlorinated, ketone, ether, or Esther solvents, sharp tools or abrasives. Never immerse electrical connectors in water or other liquids.*

Getting Started

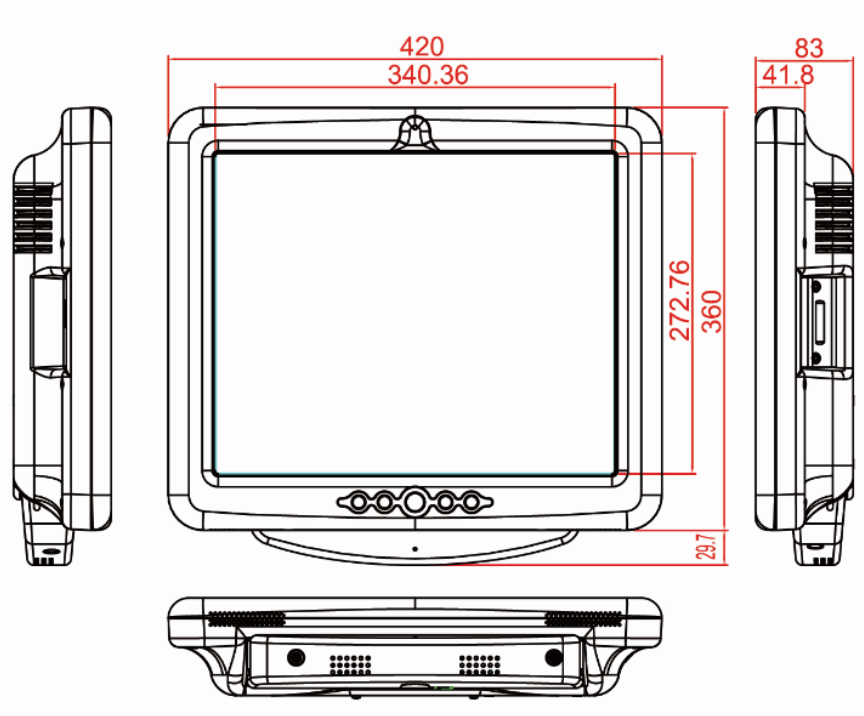
System Set Up

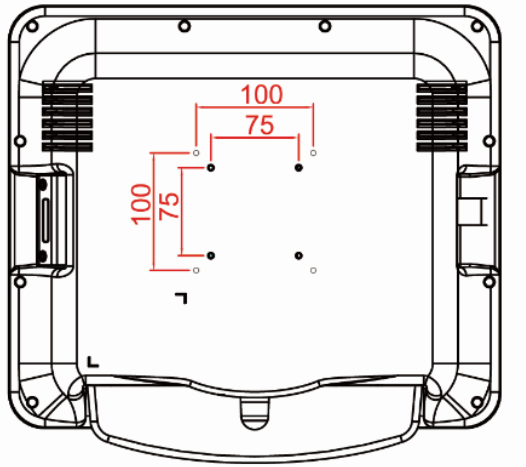
The following is a summary of the steps in setting up the system for use.

(1). You can fix the system to a mounting fixture using the screw holes on the sides of the system.
(2). Make any required external connections such as the display, keyboard, and LAN.
(3). Plug the appropriate end of the power cord into the power connector on the rear of the system and the plug to an electrical outlet.
(4). Press the power switch on the front panel of the system once to turn on the system power.
(5). If necessary, run the BIOS SETUP programs to configure the system.

Caution:
In order to boot up system from USB-CD/DVD drive, please connect USB-CD/DVD drive, turn on computer power, keep on pressing "F11" key, go into BIOS quick boot menu, select "USB-CD ROM", WAIT FOR 20 SECONDS, then press enter, system OS will boot up from USB-CD/DVD drive directly.

Dimension





System View

Front View

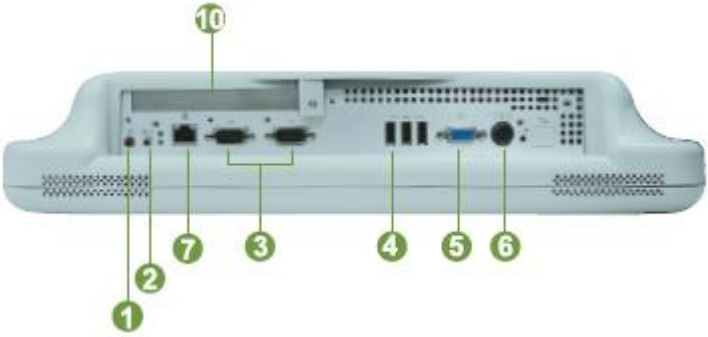
Control button at front panel

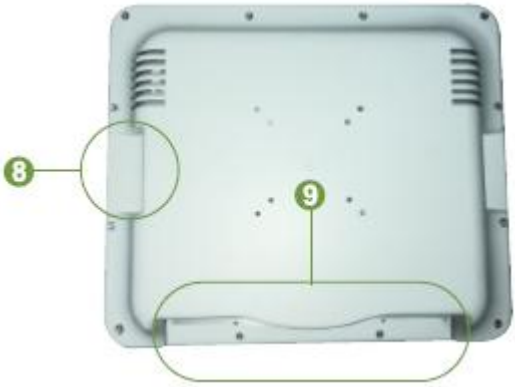
From left to right:

1. Brightness down
2. Brightness up
3. Power
4. Volume down
5. Volume up

Rear View

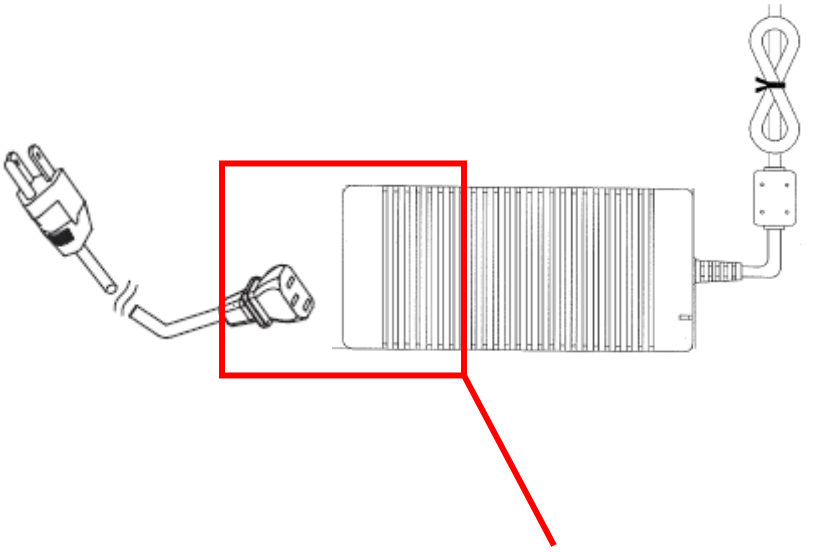
I/O parts (WMP-175)





1. Mic
2. Line-out
3. RS232
4. USB
5. VGA
6. Power DC-in
7. Giga LAN
8. Rubber cover
9. I/O cover
10. PCI-E or PCI

Disconnect Device



Unplug the power cord from the power adapter jack to disconnect the device.

BIOS Setup

BIOS Introduction

The AMI BIOS (Basic Input/Output System) installed in your computer system's ROM supports Intel processors. The BIOS provides critical low-level support for a standard device such as disk drives, serial ports and parallel ports. It also adds virus and password protection as well as special support for detailed fine-tuning of the chipset controlling the entire system.

BIOS Setup

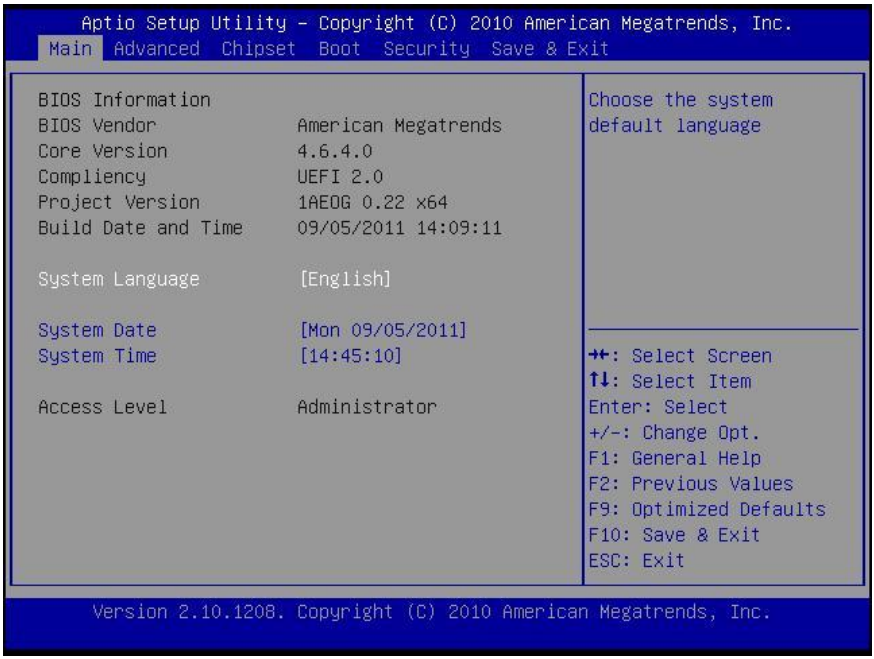
The AMI BIOS provides a Setup utility program for specifying the system configurations and settings. The BIOS ROM of the system stores the Setup utility. When you turn on the computer, the Award BIOS is immediately activated. Pressing the <Del> key immediately allows you to enter the Setup utility. If you are a little bit late pressing the <Del> key, POST (Power On Self Test) will continue with its test routines, thus preventing you from invoking the Setup. If you still wish to enter Setup, restart the system by pressing the "Reset" button or simultaneously pressing the <Ctrl>, <Alt> and <Delete> keys. You can also restart by turning the system Off and back On again. The following message will appear on the screen:

Press <DEL> to Enter Setup

In general, you press the arrow keys to highlight items, <Enter> to select, the <PgUp> and <PgDn> keys to change entries, <F1> for help and <Esc> to quit.

When you enter the Setup utility, the Main Menu screen will appear on the screen. The Main Menu allows you to select from various setup functions and exit choices.

Main


Aptio Setup Utility – Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Boot Security Save & Exit
BIOS Information
BIOS Vendor American Megatrends
Core Version 4.6.4.0
Compliency UEFI 2.0
Project Version 1AEOG 0.22 x64
Build Date and Time 09/05/2011 14:09:11
System Language [English]
System Date [Mon 09/05/2011]
System Time [14:45:10]
Access Level Administrator
Choose the system default language
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.10.1208. Copyright (C) 2010 American Megatrends, Inc.

This section provides information on the BIOS information, Memory information, and LAN MAC information

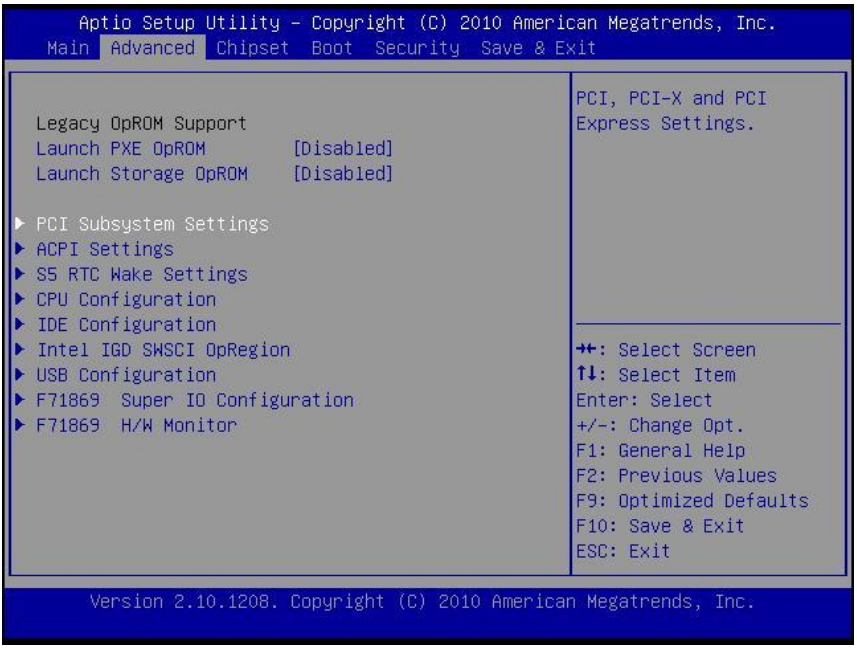
System Language

Choose the BIOS default language.

System Date/Time

Set the system date/time. Use the <Tab> key to switch between data/time elements.

Advanced



Launch OpROM Support

Launch PXE OpROM

Enables or disables Boot Option for Legacy Network Devices.

Launch Storage OpROM

Enables or disables Boot Option for Legacy Mass Storage Devices with Option ROM.

PCI Subsystem Settings

PCI ROM Priority

In Case of multiple Option ROMs (Legacy and EFI Compatible), specifies what PCI Option ROM to launch.

PCI Latency Timer

Value to be programmed into PCI Latency Timer Register.

VGA Palette Snoop

Enables or disables VGA Palette Registers Snooping.

PERR# Generation

Enables or Disables PCI Device to Generate PERR#.

SERR# Generation

Enables or Disables PCI Device to Generate SERR#.

Relaxed Ordering

Enables or Disables PCI Express Device Relaxed Ordering.

Extended Tag

If ENABLED allows Device to use 8-bit Tag field as a requester.

No Snoop

Enables or Disables PCI Express Device No Snoop option.

Maximum Payload

Set Maximum Payload of PCI Express Device or allow System BIOS to select the value

Maximum Read Request

Set Maximum Read Request Size of PCI Express Device or allow System BIOS to select the value.

ASPM Support

Set the ASPM Level: Force L0 – Force all links to L0 State : AUTO – BIOS auto configure : DISABLE – Disables ASPM.

Extended Synch

If ENABLED allows generation of Extended Synchronization patterns.

ACPI Settings

Enables ACPI Auto Conf

Enables or Disables BIOS ACPI Auto Configuration.

Enable Hibernation

Enables or Disables System ability to Hibernate (OS/S4 Sleep State). This option may be not effective with some OS.

ACPI Sleep State

Select the highest ACPI sleep state the system will enter, when the SUSPEND button is pressed.

S5 RTC Wake Settings

Wake System with Fixed Time

Enables or disables system wake on alarm event. When enabled, the system will wake on the time specified.

Wake system with Dynamic Time

Enables or disables system wake on alarm event. When enabled, the system will wake on the current time+Increase minute(s).

CPU Configuration

Hyper-Threading

Enabled for Windows XP and Linux (OS optimized for Hyper-Threading Technology) and Disabled for other OS (OS optimized for Hyper-Threading Technology)

Core-Multi Processing

Enable or Disable Core-Multi Processing mode.

Execute Disable Bit
XD can prevent certain classes of malicious buffer overflow attacks when combined with a supporting OS (Windows Server 2003 SP1, Windows XP SP2, SuSE Linux 9.2, RedHat Enterprise 3 Update 3.)

Limit CPUID Maximum
Disabled for Windows XP.

IDE Configuration

ATA or IDE Configuration
Select ATA or IDE configuration.

Configure SATA AS
Select a configuration for SATA controller.

HDD Acoustic Power Ma
Option to enable or disable HDD Acoustic Power Management.

DiPM
Option to enable or disable DiPM

Intel IGD SWSCI OpRegion

DVMT Mode Select
Selects DVMT Mode used by Internal Graphics Device.

DVMT/FIXED Memory
Selects DVMT/FIXED Mode Memory size used by Internal Graphics Device.

IGD – Boot Type
Select the Video Device which will be activated during POST. This has no effect if external graphics present.

LCD Panel Type
Select LCD panel used by Internal Graphics Device by selecting the appropriate setup item.

Panel Scaling
Select the LCD panel scaling option used by the Internal Graphics Device.

GMCH BLC Control
Back Light Control Setting

BIA Control

Spread Spectrum clock
>>Hardware: Spread is controlled by chip;
>>Software: Spread is controlled by BIOS.

TV1 Standard

TV2 Standard

Active LFP
Select the Active LFP Configuration.

No LVDS:VBIOS does not enable LVDS.
INT-LVDS:VBIOS enables LVDS driver by Integrated encoder.
SDV0 LVDS:VBIOS enables LVDS driver by SDV0.

USB Configuration

Legacy USB Support

Allows USB devices to be used in MS-DOS.

EHCI Hand-off

This is a workaround for 0Ses without EHCI hand-off support. The EHCI ownership change should be claimed by EHCI driver.

USB transfer time-out

The time-out value for Control, Bulk, and Interrupt transfers.

Device reset time-out

USB mass storage device Start Unit command time-out.

Device power-up delay

Maximum time the device will take before it properly reports itself to the HOST Controller.
'Auto' uses default value: for a Root port it is 100 ms, for a Hub port the delay is taken from Hub descriptor.

F71869 Super IO Configuration

Serial Port 0 Configuration

Set Parameters of Serial Port 0 (COM A).

Serial Port 1 Configuration

Set Parameters of Serial Port 1 (COM B).

F71869 H/W Monitor

Monitor hardware status

Second Super IO Configuration

Serial Port 1 Configuration

Set Parameters of Serial Port 1 (COM C).

Serial Port 2 Configuration

Set Parameters of Serial Port 2 (COM D).

Serial Port 3 Configuration

Set Parameters of Serial Port 3 (COM E).

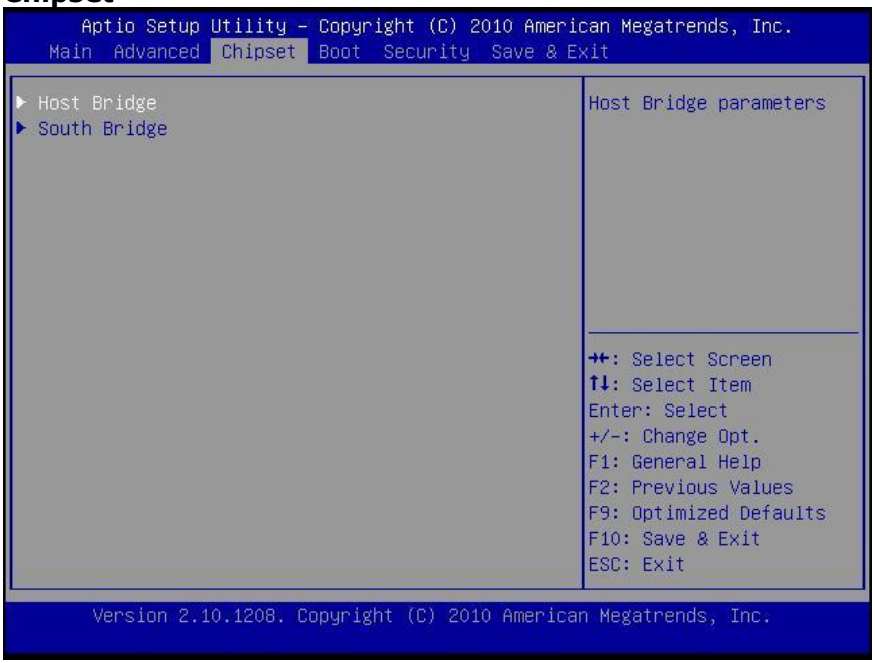
Serial Port 4 Configuration

Set Parameters of Serial Port 4 (COM F).

Serial Port Console Redirection

Serial Port Console Redirection.

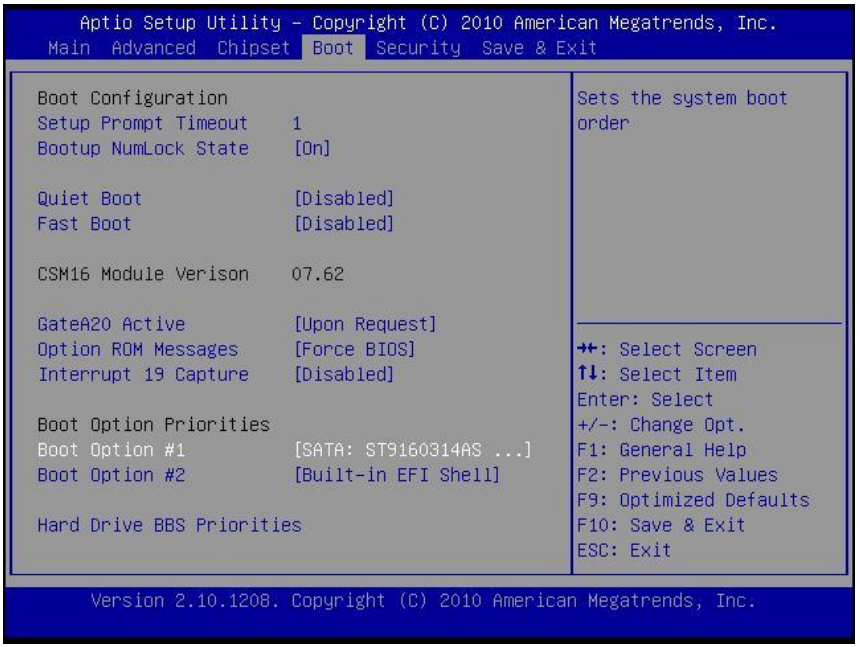
Chipset



Host Bridge/South Bridge

This screen provides information on Host Bridge/South Bridge parameters.

Boot


Aptio Setup Utility – Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Boot Security Save & Exit
Boot Configuration
Setup Prompt Timeout 1
Bootup NumLock State [On]
Quiet Boot [Disabled]
Fast Boot [Disabled]
CSM16 Module Verison 07.62
GateA20 Active [Upon Request]
Option ROM Messages [Force BIOS]
Interrupt 19 Capture [Disabled]
Boot Option Priorities
Boot Option #1 [SATA: ST9160314AS ...]
Boot Option #2 [Built-in EFI Shell]
Hard Drive BBS Priorities
Sets the system boot order
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
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Setup Prompt Timeout

Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.

Bootup Numlock State

Selects the keyboard NumLock state.

Full Screen LOGO Show

Allows you to determine whether to display the AMI Logo at system startup. **Disabled** displays normal POST message.

Fast Boot

Enables or disables the quick boot function to speed up the system boot-up process to shorten the waiting time for entering the operating system and to deliver greater efficiency for daily use.

GateA20 Active

This option is useful when any RT code is executed above 1MB. Upon Request GA20 can be disabled using BIOS services. (Default)

Always Do not allow disabling GA20.

Option ROM Messages

Sets display made for option ROM.

Interrupt 19 Capture

Enables or disables Option ROMs to Trap Int 19.

Boot Option Priorities

Specifies the sequence of loading the operating system from the installed hard drives.

Security

Aptio Setup Utility – Copyright (C) 2010 American Megatrends, Inc.
Main Advanced Chipset Boot Security Save & Exit
Password Description
If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup.
If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup the User will have Administrator rights.
The password must be 3 to 20 characters long.
Administrator Password
User Password
HDD Security Configur
HDD 0:ST9160314AS
Set Setup Administrator Password
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
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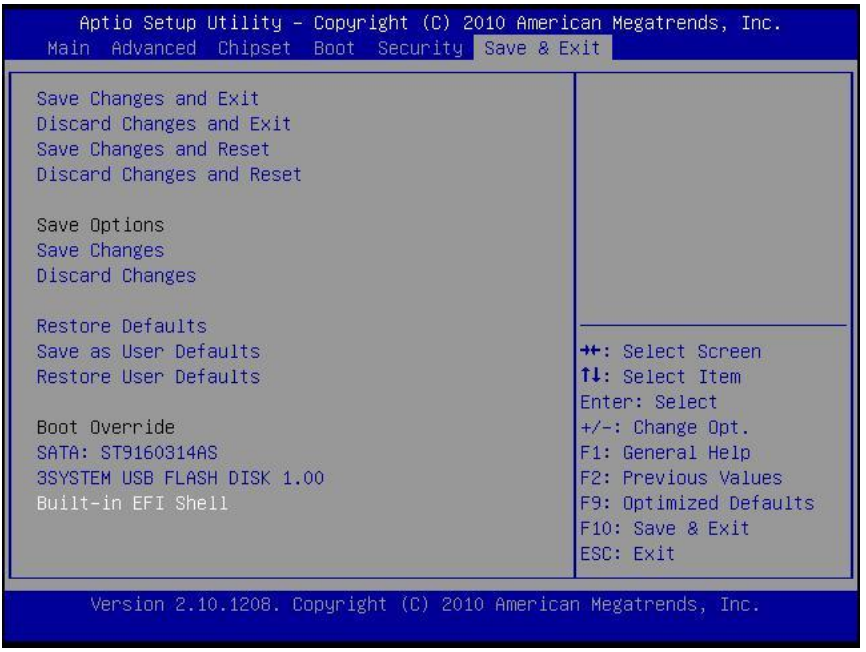
Enables or disables the security chip. It is recommended that you use this function with the Administrator/User password.

Save & Exit



Save Changes and Exit
Exit system setup after saving the changes.
Discard Changes and Exit
Exit system setup without saving any changes.
Save Changes and Reset
Reset the system after saving the changes.
Discard Changes and Reset
Reset system setup without saving the changes.
Save Changes
Save the changes done so far to any of setup options.
Discard Changes
Discard the changes done so far to any of setup options.
Restore Defaults
Restore/load default values for all the setup options.
Save as User Defaults
Save the changes done so far as User Defaults.
Restore User Defaults
Restore the User Defaults to all the setup options.
EFIGUI_FLASH
Press <Enter> to execute the simple EFI GUI Flash Program.

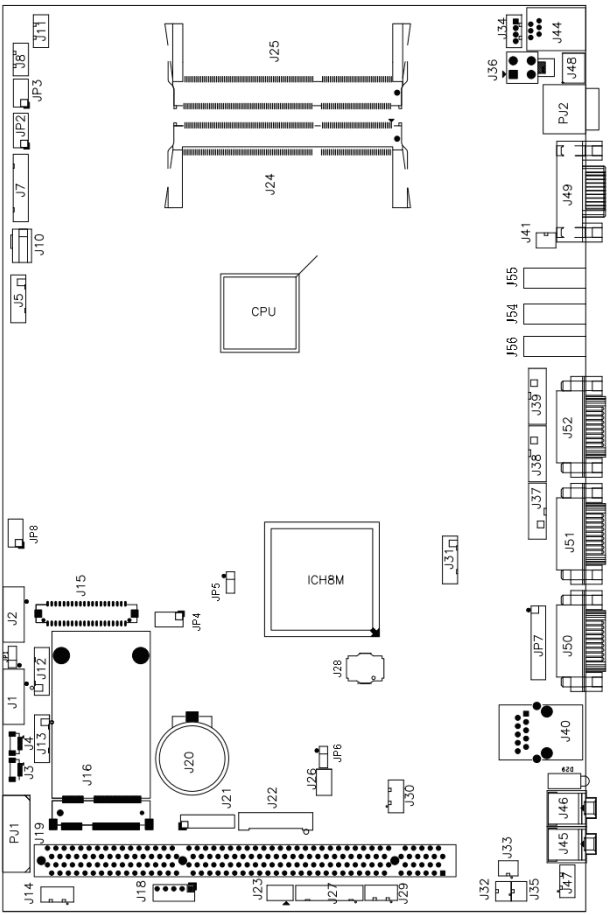
Appendix

A. Jumper settings and Connectors

This appendix gives the definitions and shows the positions of jumpers, headers and connectors. All of the configuration jumpers on WMP-175 are in the proper position.

Note: Some of jumpers or connectors will be removed base on system configuration.

Jumper and Connector Definition Block Diagram



JP1 – SATA DOM Selection

Description	Jumper Setting
SATA DOM	1-2
SATA	***2-3(default)***

JP2 – Touch Panel Wire Selection

Description	Jumper Setting
4 wire	1-2, 3-4, 5-6, 7-8, 9-10
5 wire	***3-4, 5-6, 7-8, 9-10(default)***
8 wire	1-2

JP3 – Touch Panel Type Selection

Description	Jumper Setting
3M type	***1-2, 3-4(default)***
ELO type	5-6,7-8

JP4 – Panel Power Selection

Description	Jumper Setting
5VS (for 17"/19")	***1-2,3-4(default)***
3.3VS (for 10"/12"/15")	5-6,7-8

JP5 – CMOS Clear

Description	Jumper Setting
Normal	***1-2(default)***
CMOS Clear	2-3

JP6 – Thermal Detection Mode

Description	Jumper Setting
Auto	***1-2(default)***
Force 25℃	2-3
Force < -40℃	NC

JP7 – COM1 Function Selection

Description	Jumper Setting
RS-232	***5-6, 9-11, 10-12, 15-17, 16-18(default)***
RS-422	3-4, 7-9, 8-10, 13-15, 14-16, 21-22
RS-485	1-2, 7-9, 8-10, 19-20

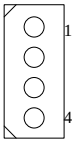
JP8 – Resolution Mode

Description	Jumper Setting
1ch18bit-->2ch24bit(scaler)	1-2
1ch18bit-->1ch24bitx2(bypass)	3-4
1ch18bit-->1ch18bitX2(bypass)	5-6
1ch18bit-->2ch24bit(bypass)**	***NC(default)***

** bypass for VBIOS resolution

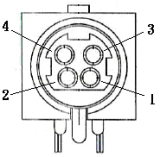
Connector Definition

PJ1 – HDD Power Connector



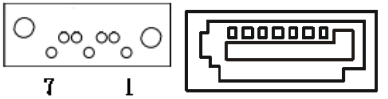
Pin #	Signal Description
1	+12V
2	Ground
3	Ground
4	+5V

PJ2 – Power Jack Connector



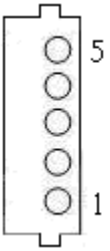
Pin #	Signal Description
1	DC In (+12V~+28V)
2	DC In (+12V~+28V)
3	Ground
4	Ground
5	Ground

J1, J2 – Standard SATA Interface



Pin #	Signal Description
1	Ground
2	Tx+
3	Tx-
4	Ground
5	Rx-
6	Rx+
7	Ground

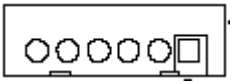
J3,J4 – Internal USB 3.3V(internal)



Pin #	Signal Description
1	+3.3V

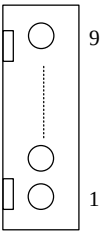
2	Data -
3	Data +
4	Ground
5	Ground

● J5 – LCD Inverter Interface



Pin #	Signal Description
1	+12V
2	+12V
3	Backlight Adjust
4	Backlight Enable
5	Ground
6	Ground

● J7 –Touch Panel Interface

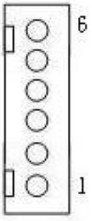


Pin #	Signal Description		
	8-wire	4-wire	5-wire
1	UL(X+)	UL(X+)	UL(X+)
2	UR(Y+)	UR(Y+)	UR(Y+)
3	N/A	N/A	PRCBE
4	LR(X-)	LR(X-)	LR(X-)
5	LL(Y-)	LL(Y-)	LL(Y-)
6	X+_DRIVE	N/A	N/A
7	Y+_DRIVE	N/A	N/A
8	X-_DRIVE	N/A	N/A
9	Y-_DRIVE	N/A	N/A

J8,J10,J14 – AUX, CPU, SYSTEM PWM FAN

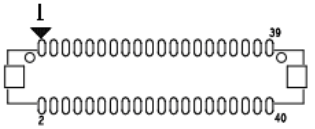
Pin #	Signal Description		
	J8(AUX)	J10(CPU)	J14 (SYSTEM)
1	AUX PWM	CPU PWM	SYS PWM
2	AUX RPM	CPU RPM	SYS RPM
3	VAUXFAN	VCPUXFAN	VSYSXFAN
4	GND	GND	GND

J12, J13 – Internal USB 5V(internal)



Pin #	Signal Description
1	+5V
2	+5V
3	Data -
4	Data +
5	Ground
6	Ground

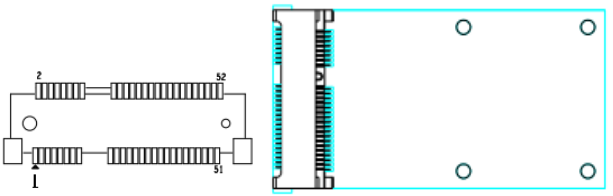
J15 – LVDS Interface



Pin #	Signal Description	Pin #	Signal Description

1	+LCD (+5V)	2	+LCD (+5V)
3	+LCD (+5V)	4	+LCD (+5V)
5	Ground	6	Ground
7	Ground	8	Ground
9	A_RxIn0-	10	B_RxIn0-
11	A_RxIn0+	12	B_RxIn0+
13	Ground	14	Ground
15	A_RxIn1-	16	B_RxIn1-
17	A_RxIn1+	18	B_RxIn1+
19	Ground	20	Ground
21	A_RxIn2-	22	B_RxIn2-
23	A_RxIn2+	24	B_RxIn2+
25	Ground	26	Ground
27	A_CKIN-	28	B_CKIN-
29	A_CKIN+	30	B_CKIN+
31	Ground	32	Ground
33	A_RxIn3-	34	B_RxIn3-
35	A_RxIn3+	36	B_RxIn3+
37	Ground	38	Ground
39	Ground	40	Ground

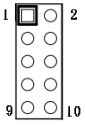
J16 – mini PCI Express Socket



Pin #	Signal Description	Pin #	Signal Description
1	PCIE_WAKE#	2	+3.3V
3	NC	4	GND
5	NC	6	+1.5V
7	NC	8	NC
9	GND	10	NC
11	CLK_MINI_PCIEN	12	NC
13	CLK_MINI_PCIEP	14	NC
15	GND	16	NC
17	NC	18	GND
19	NC	20	NC

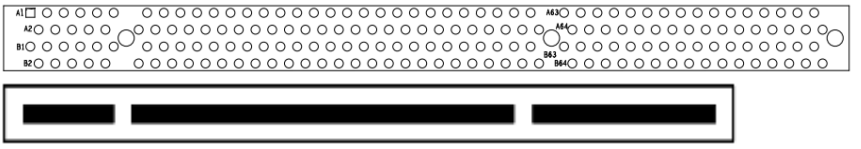
21	GND	22	PLT_RST#
23	PCIE_RXN6	24	+3.3V
25	PCIE_RXP6	26	GND
27	GND	28	+1.5V
29	GND	30	SMB_CLK
31	PCIE_TXN6	32	SMB_DATA
33	PCIE_TXP6	34	GND
35	GND	36	USBPN4
37	GND	38	USBPP4
39	+3.3V	40	GND
41	+3.3V	42	NC
43	GND	44	NC
45	NC	46	NC
47	NC	48	+1.5V
49	NC	50	GND
51	NC	52	+3.3V
53	NC	54	NC

● J18 – JTAG



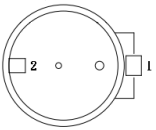
Pin #	Signal Description	Pin #	Signal Description
1	+3.3V	2	GND
3	GND	4	C8051 DATA
5	+3.3V	6	NC
7	C8051 RESET	8	NC
9	GND	10	NC

● J19 – Standard PCI-X Slot Interface(Support PCI & PCIeX4)



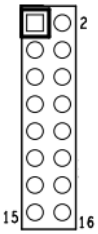
Pin #	Signal Description	Pin #	Signal Description	Pin #	Signal Description	Pin #	Signal Description
A1	+12V	A2	+12V	B1	NC	B2	GND
A3	+12V	A4	+12V	B3	GND	B4	+12V
A5	+5V	A6	PCI_INTE#	B5	+5V	B6	+5V
A7	PCI_INTG#	A8	+5V	B7	PCI_INTF#	B8	PCI_INTH#
A9	PCI_CLKRUN#	A10	+5V	B9	NC	B10	PCIE_WAKE#
A11	PLT_RST#	A12		B11	NC	B12	
A13		A14	+3.3V	B13		B14	NC
A15	PCI_RESET#	A16	+5V	B15	GND	B16	PCICLK1_33M
A17	PCI_GNT#1	A18	GND	B17	GND	B18	PCI_REC#
A19	AB_PME#	A20	Address 30	B19	+5V	B20	Address 31
A21	+3.3V	A22	Address 28	B21	Address 29	B22	GND
A23	Address 26	A24	GND	B23	Address 27	B24	Address 25
A25	Address 24	A26	Address 25	B25	+3.3V	B26	CBE#3
A27	+3.3V	A28	Address 22	B27	Address 23	B28	GND
A29	Address 20	A30	GND	B29	Address 21	B30	Address 19
A31	Address 18	A32	Address 16	B31	+3.3V	B32	Address 17
A33	+3.3V	A34	PCI_FRAME#	B33	CBE#2	B34	GND
A35	GND	A36	PCI_TRDY#	B35	PCI_IRDY#	B36	+3.3V
A37	GND	A38	PCI_STOP#	B37	PCI_DEVSEL#	B38	GND
A39	+3.3V	A40	SMB_CLK	B39	PCI_LOCK#	B40	PCI_PERR#
A41	SMB_DATA	A42	GND	B41	+3.3V	B42	PCI_SERR#
A43	PCI_PAR	A44	Address 15	B43	+3.3V	B44	CBE#1
A45	+3.3V	A46	Address 13	B45	Address 14	B46	GND
A47	Address 11	A48	GND	B47	Address 12	B48	Address 10
A49	Address 9	A50	CLK_ PCIE_X4_100MP	B49	GND	B50	NC
A51	CLK_ PCIE_X4_100MN	A52	CBE#0	B51	NC	B52	Address 8
A53	+3.3V	A54	Address 6	B53	Address 7	B54	+3.3V
A55	Address 4	A56	GND	B55	Address 5	B56	Address 3
A57	Address 2	A58	Address 0	B57	GND	B58	Address 1
A59	+5V	A60	+5V	B59	+5V	B60	+5V
A61	+5V	A62	+5V	B61	+5V	B62	+5V
A63	PCIE_RXP1	A64	PCIE_RXN1	B63	PCIE_TXP1	B64	PCIE_TXN1
A65	PCIE_RXP2	A66	PCIE_RXN2	B65	PCIE_TXP2	B66	PCIE_TXN2
A67	PCIE_RXP3	A68	PCIE_RXN3	B67	PCIE_TXP3	B68	PCIE_TXN3
A69	PCIE_RXP4	A70	PCIE_RXN4	B69	PCIE_TXP4	B70	PCIE_TXN4
A71	NC	A72	NC	B71	NC	B72	NC
≀		≀		≀		≀	
A93		A94		B93		B94	

J20 – Battery Socket



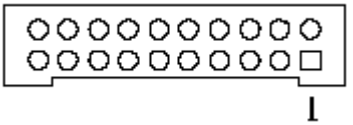
Pin #	Signal Description
1	+3V
2	GND

J21 –TPM / ID-394



Pin #	Signal Description	Pin #	Signal Description
1	LPC AD0	2	PCI reset
3	LPC AD1	4	SERIRQ
5	LPC AD2	6	+3.3V
7	LPC AD3	8	+5V
9	LPC Frame	10	PCI CLKRUN
11	Debug CLK	12	SMB CLK
13	GND	14	SMB DATA
15	LPC PD	16	+3.3V

J22 –GPIO Interface(internal)



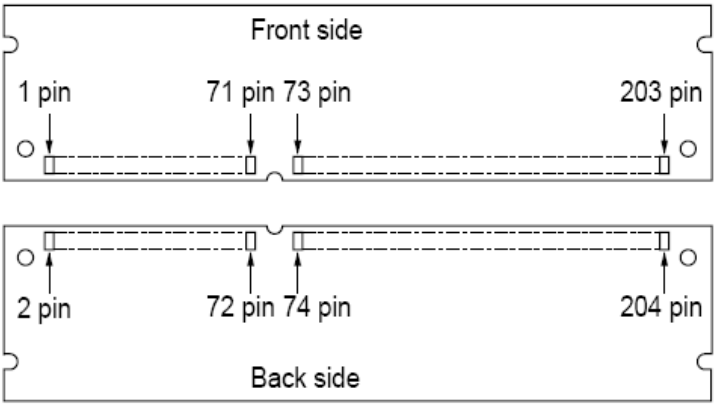
Pin #	Signal Description	Pin #	Signal Description
1	GPO 1	2	GPI 1
3	GPO 2	4	GPI 2

5	GPO 3	6	GPI 3
7	GPO 4	8	GPI 4
9	GPO 5	10	GPI 5
11	GPO 6	12	GPI 6
13	GPO 7	14	GPI 7
15	GPO 8	16	GPI 8
17	+5V	18	+5V
19	Ground	20	Ground

● J23 – Lock LED / Outdoor LED Indicator

Pin #	Signal Description
1	+3.3V
2	Heater LED
3	Key Lock LED

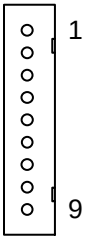
● J24,J25 – DDR3 SO-DIMM Interface



J26 – Light Sensor Connector

Pin #	Signal Description
1	Light Sensor
2	NC
3	+3.3V

J27 – Front Bezel Button Connector



Pin #	Signal Description
1	Power Button
2	+3.3V
3	Sound Volume Up
4	Sound Volume Down
5	Ground
6	LCD BackLight Up
7	LCD BackLight Down
8	Touch Screen Forbid
9	LCD BackLight ON/OFF

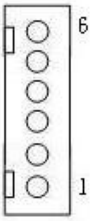
J29 – LED

Pin #	Signal Description
1	SATA LED
2	+5V
3	+5V
4	Power LED

● J30 – Motion Detection

Pin #	Signal Description
1	Ground
2	Motion Detection
3	+5V
4	+3.3V

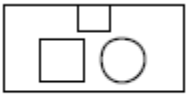
● J31 – PS2 KB/MS connector



Pin #	Signal Description
1	Keyboard data
2	Mouse data
3	GND
4	5V

5	Keyboard clock
6	Mouse clock

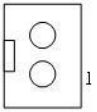
J32, J35 – Passive Speaker Connector



1

J32(Right Channel)		J35(Left Channel)	
Pin #	**Signal Description**	**Pin #**	**Signal Description**
1	AMP. Out +	1	AMP. Out +
2	AMP. Out -	2	AMP Out -

J33 – Internal MIC

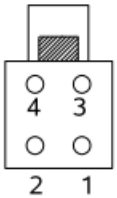


Pin #	Signal Description
1	MIC right
2	GND

J35,J47 – Handset Cable Link

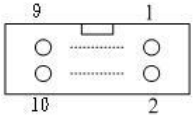
Pin #	Signal Description
1	AMP Shutdown
2	Handset speaker
3	Handset MIC
4	GND

J36 – ATX 12V for Heater1



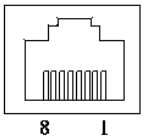
Pin #	Signal Description
1	Ground
2	Ground
3	+12V
4	+12V

J37,J38,J39 – COM4, COM5, COM6 Serial Port



Pin #	Signal Description	Pin #	Signal Description
1	232_DCD	2	232_DSR
3	232_SIN	4	232_RTS
5	232_SOUT	6	232_CTS
7	232_DTR	8	232_RI
9	GND	10	+5VS

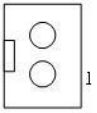
J40 – Ethernet Port



Pin #	Signal Description
1	Data0+
2	Data0-
3	Data1+

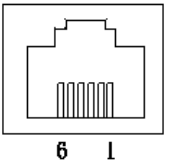
4	Data2+
5	Data2-
6	Data1-
7	Data3+
8	Data3-

● J41 – Power Switch



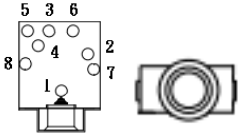
Pin #	Signal Description
1	Power ON
2	GND

● J44 – Handset Connector



Pin #	Signal Description
1	AMP Shutdown
2	Handset speaker
3	Handset MIC
4	GND

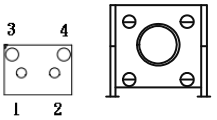
● J45,J46 – Audio Connector



J45 - Microphone (stereo) Pink		**J46** - Line Out (stereo) Green	
Pin #	**Signal Description**	**Pin #**	**Signal Description**
1	GND	1	GND

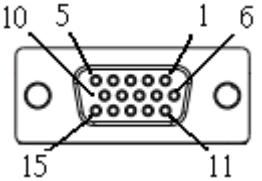
2	MIC left	2	Headphone left
3	MIC right	3	Headphone right
4	GND	4	GND
5	MIC Detect	5	Headphone Detect
6	NC	6	HP/LINE#
7	GND	7	GND
8	GND	8	GND

● J48 – Reset Button



Pin #	Signal Description
1	System Reset
2	GND
3	GND
4	GND

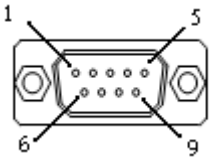
● J49 – Display Interface



Pin #	Signal Description
1	RED
2	Green
3	Blue
4	N.C.
5	GND
6	GND
7	GND
8	GND
9	CRT +5VS
10	GND
11	N.C.

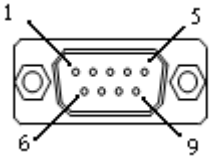
12	DDCDAT
13	HSYNC
14	VSYNC
15	DDCCLK

● J50 – COM1 Connector



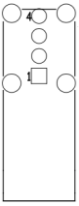
Pin #	Signal Description		
	RS-232	RS-422	RS-485
1	Carrier Detect	Transmit Data -	Transmit Data -
2	Receive Data	Transmit Data +	Transmit Data +
3	Transmit Data	Receive Data +	NC
4	Data Terminal Ready	Receive Data -	NC
5	Ground	NC	NC
6	Data Set Ready	NC	NC
7	Request to Send	NC	NC
8	Clear to Send	NC	NC
9	Ring Indicator	NC	NC

● J51,J52 – COM2, COM3 Connector



Pin #	Signal Description	Pin #	Signal Description
1	232_DCD	2	232_SIN
3	232_SOUT	4	232_DTR
5	GND	6	232_DSR
7	232_RTS	8	232_CTS
9	232_RI	10	Not Used

J54,J55,J56 – USB Port



Pin #	Signal Description
1	+5V
2	USB_D-
3	USB_D+
4	GND

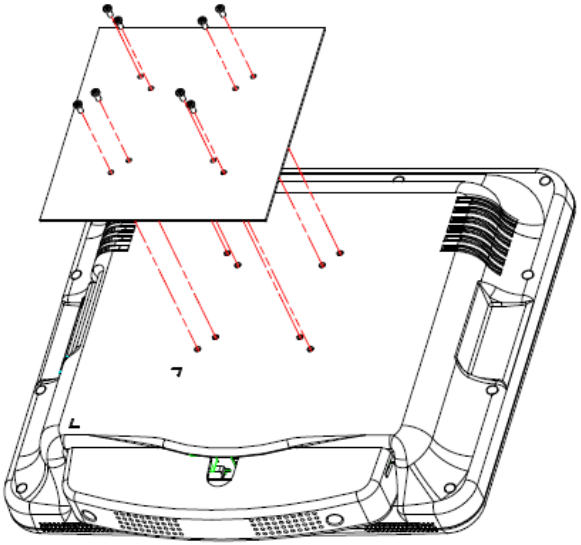
B. VESA Mounting

The WMP-175 also provides standard VESA mounting to help system integrators conveniently integrate the panel PC into their system. Never use any other mounting brackets except those provided by Wincomm to prevent the unreliable fixing of WMP-175. VESA mount installation should be carried out by a professional technician. Please contact the service technician or your retailer if you need this service.

Installation instructions follow:
1. The wall-mounting attachment is comprised of two parts: one back bracket, and one mounting bracket.
2. First attach the back bracket to the rear cover of the WMP-175, securing it in place with four of the Phillips-head screws provided.
3. Attach the mounting bracket to the wall or another flat surface. The back bracket slides vertically from the top into the mounting bracket. It can be secured to the mounting bracket by screwing four of the Phillips-head screws provided through the corresponding holes at the tops of the mounting bracket.

Warning:

Be sure to secure the screws of the mounting bracket tightly. Injuries could result if the WMP-175 isn't properly secured to the mounting bracket.



Screws: M4 x 10mm

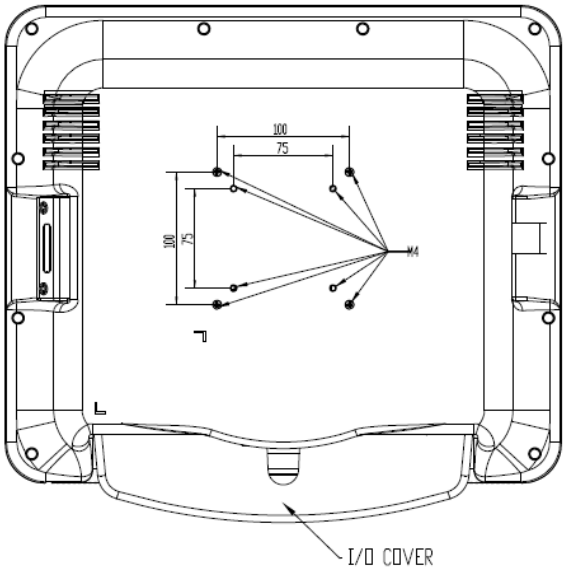


Figure B.1: VESA mounting dimension diagram (75 x 75 mm, 100 x 100 mm)

C. Scrap Computer Recycling

If the computer equipments need the maintenance or are beyond repair, we strongly recommended that you should inform us as soon as possible for the suitable solution. For the computers that are no longer useful or work well, please contact with worldwide distributors for recycling.

The worldwide distributors show on the following website:
http://www.wincomm.com.tw/contact.aspx

Note:
Follow the national requirement to dispose unit